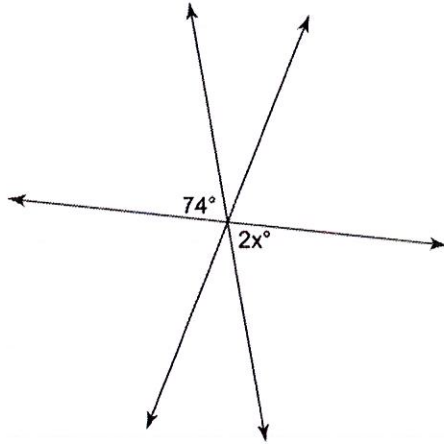


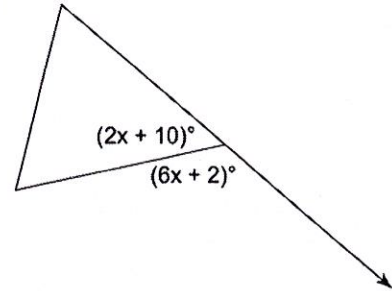
WLPCS
Geometry

#3-5

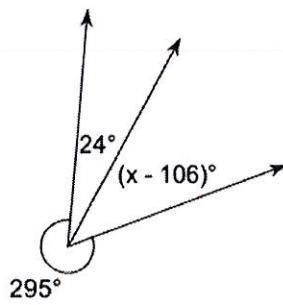
9)



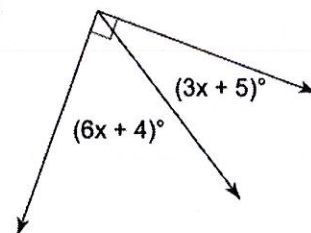
10)



13)



14)



Directions: Work with a table partner to make a strategy for this set of problems. **NOTICE** that these problems are different than the last set.

Find the other endpoint of the line segment with the given endpoint and midpoint.

21) Endpoint: $(-1, 9)$, midpoint: $(-9, -10)$

22) Endpoint: $(2, 5)$, midpoint: $(5, 1)$

23) Endpoint: $(5, 2)$, midpoint: $(-10, -2)$

24) Endpoint: $(9, -10)$, midpoint: $(4, 8)$

25) Endpoint: $(-9, 7)$, midpoint: $(10, -3)$

26) Endpoint: $(-6, 4)$, midpoint: $(4, 8)$

Critical thinking questions:

27) Find the point that is one-fourth of the way from $(2, 4)$ to $(10, 8)$.

28) One endpoint of a line segment is $(8, -1)$. The point $(5, -2)$ is one-third of the way from that endpoint to the other endpoint. Find the other endpoint.

$$\textit{distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Find the distance in between each set of points:

7.) (3, 7) and (2, 9)

8.) (-6, 11) and (4, -1)

9.) (0, -8) and (-19, 2)

10.) (-4, 2) and (-4, 11)

11.) (18.1, -0.5) and (33.5, 19.7)

12.) (55, 586) and (118, 670)

Find the midpoint of the line segment with the given endpoints.

9) $(-4, 4)$, $(5, -1)$

10) $(-1, -6)$, $(-6, 5)$

11) $(2, 4)$, $(1, -3)$

12) $(-4, 4)$, $(-2, 2)$

13) $(5, 2)$, $(-4, -3)$

14) $(-1, 1)$, $(5, -5)$

15) $(2, -1)$, $(-6, 0)$

16) $(-3.1, -2.8)$, $(-4.92, -3.3)$

17) $(-5.1, -2)$, $(1.4, 1.7)$

18) $(4.9, -1.3)$, $(-5.2, -0.6)$

19) $(5.1, 5.71)$, $(6, 3.6)$

20) $(3.1, -2.1)$, $(-0.52, -0.6)$

#9

A car drives 2.5 miles north, then 4 miles west, then 1 mile north, and finally 1 more mile west. How far is it (in a straight line) from where it started?

A student leaves school and walks 0.8 miles south, then 0.5 miles west, then 0.3 more miles south, then 1 more mile west. How far (in a straight line) are they from their school?

A *composite shape* is _____.

Find the **area** of each composite shape below:

#11, 12

